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JWK

2 November 1961

Declass Review by NGA.

TO: John C. JWK 3 NOV 61

X1 FROM: [redacted]

SUBJECT: Technical Intelligence Program Implementation

1. Reference is made to our conversation of 30 October in which we discussed stepping up the implementation schedule for the Univac 490 system. It was agreed that it would be most desirable to have the system installed and operating on the beneficial occupancy date of [redacted] 25X

2. This being the desire, certain supporting actions, both on our part and on the part of NPIC, are indicated. These include the necessary decisions which have to be made if a date of December 1962 is to be met. For your information and, in certain cases, for your action, these are as follows:

a. Computer Purchase Order

As soon as possible [redacted] should be given a letter of intent for the purchase of a Univac 490. [redacted] puts out one computer system a month. Once their delivery schedule is committed, it is very difficult to get an early delivery on a machine. A week ago I was advised that the October unit is available. We would prefer to obtain this unit. 25X 25X

b. Security Clearances

(1) In the previously submitted Technical Directive for Technical Intelligence, I recommended that TOP SECRET clearances be submitted for [redacted] These two will be given the responsibility for the analysis of all problem content. Inasmuch as they will be concerned strongly with various error analyses, they should be exposed to the actual technical problems of NPIC. For example, the computer system will attempt to give the PIs precise measurements of ground distances. The tolerances to which these distances are calculated should be identified accurately. Since the accuracy of these measurements is dependent on the type of film used, the focal lengths of the camera, the altitude of the vehicles, the positioning of these vehicles, the geographic location of these vehicles, the times of

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day, velocity, etc., the persons analyzing problems should know what the actual values are and should not attempt to work with hypothetical situations. It is my opinion that there is neither the time nor manpower available within NPIC to work on this material.

(2) Additionally, I suggest that clearances be processed for various other individuals who will be working with NPIC and [redacted] 25X
These include individuals currently employed by [redacted] (who 25X
will be the computer design specialists and programmers for the
X1 program) [redacted] (who will participate in the design of special input/
X1 output equipment), and [redacted] (who will work with [redacted] on 25X
programming the basic technical intelligence problem material). Of
these, I suggest that [redacted] be processed for TOP 25X
X1 SECRET clearances and [redacted] for SECRET clearances. The individuals
with whom I am familiar and would, therefore, recommend from these
companies are [redacted] 25X
X1 [redacted] Individuals from [redacted] are most familiar to you. 25X
X1 The programmers from [redacted] should be suggested by them.

c. Project Team

From the above it is apparent that a stepped up schedule calls for the organization of project team. This team will consist of eight to
X1 nine individuals from [redacted] approximately four individuals from [redacted] 25X
X1 [redacted] one to two individuals from [redacted] approximately two to four from
[redacted] and various NPIC representatives from TAB, PAD and TP & DS.

d. Checkout

(1) Assuming that we can get a commitment from [redacted] 25X
for the October 1962 Univac 490, the period immediately preceding
and following October will be devoted to machine and program checkout.
Machine checkout procedures are fairly well specified by the [redacted] 25X
X1 [redacted] production system. As far as program checkout is concerned, we
can run a limited amount of diagnostic material through the machine.
However, at some time we should simulate the entire operation, most
certainly including the very classified contents that will eventually
form the substance of the system.

(2) Obviously, the machine checkout procedures should be run at St. Paul. Immediately upon completion of the unit and prior to the delivery, the entire installation will be set up and checked out in the factory. It would be desirable to run problem material through the machine at that time. In this regard, [redacted] advises that 25X
they have a maximum security area which we can use for this machine.
Routine problems can be run by their people. When classified problems
are run, their people will vacate the area and a combined team of [redacted] 25X
and NPIC employees will conduct the checkout. By then the computer
X1 area in [redacted] will be ready for occupancy. We intend to start
installation 30 days prior to the final proposed beneficial occupancy
date. This means that the computer will be delivered one month before
you move into and start using the facility.

e. Facility Considerations

X1 (1) As you know, [redacted] Washington office will release preliminary design drawings to various contractors on 1 November. The contractors will submit their estimate of fee on the 15th. The contract will be awarded to one of these companies in early December.

(2) The computer area will be one of the points which will come under consideration. We will have to specify to the contractors when we want that particular area completed and ready for occupancy. The rest of the building may not be completed but that area will. The power and air conditioning will be in operation. The computer manufacturer will be able to deliver and start installation. For this reason it is most important that we establish at this time (preferably by the end of the week) the actual intentions of NPIC

X1 [redacted]

3. In summary, we need, as soon as possible, an Agency commitment on the purchase of a Univac 490, the decision to clear certain individuals for the program and the decision to put the technical intelligence system into operation by the end of 1962. Your advice on these matters will determine our schedule for the TI program.

Jack

X1 [redacted]

TAM/jem